Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

PRE-MEASURMENT SHEETS

"THIRD AND FINAL BILL"

Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

Date of Pre-Measurement :

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Rate	Amount
1	KSRRB M300-14. Excavation for road work in all type of soil by mechanical means including cutting loading to tippers trimming bottom and side slopes in accordance with requirment of lines and cross sections and transportation with a lead of 1.00 km and complete as per specification. MORTH Specification No.301 and 4Kms Lead for disposal.								
	NEW FORMATION								
	BHEL LAYOUT								
	5TH CROSS ROAD								
	Ch.0.00 to 30.0m		1	30.00	5.50	0.40	69.60		
	Ch.30.0 to 60.0m		1	30.00	5.50	0.40	69.60		
	Ch.60.0 to 90.0m		1	30.00	5.80	0.40	72.00		
	Ch.90.0 to 102.5m		1	12.50	5.80	0.40	30.00		
	BERM CUTTING								
	Ch.0.00 to 30.0m		2	30.00	2.00	0.25	30.60		
	Ch.30.0 to 60.0m		2	30.00	2.00	0.25	30.60		
	Ch.60.0 to 90.0m		2	30.00	2.00	0.25	30.60		
	Ch.90.0 to 102.5m		2	12.50	2.00	0.25	12.75		
						Present Qty	**345.75**	**57.03**	**19718.12**

Contractor PMC

Assistant Engineer 9/4/2024

Asst. Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

Date of Pre-Measurement :

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Rate	Amount
2	construction of granular sub-base grading-v as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite material, mixing by mix in place method by rotavator at OMC spreading in uniform layers with motor grader on prepared surface and compactioning with vibratory power roller to achieve the 98% proctor density, complete as per specification. clause 401 of MORTH V revision								
	NEW FORMATION								
	BHEL LAYOUT								
	5TH CROSS ROAD								
	Ch.0.00 to 30.0m		1	30.00	5.50	0.15	26.10		
	Ch.30.0 to 60.0m		1	30.00	5.50	0.15	26.10		
	Ch.60.0 to 90.0m		1	30.00	5.80	0.15	27.00		
	Ch.90.0 to 102.5m		1	12.50	5.80	0.15	11.25		
						Present Qty	90.45		

16/04/2021

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Contractor PMC Assistant Engineer

16/04/2021

Asst. Executive Engineer

16/4/2021

Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

Date of Pre-Measurement :

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Rate	Amount
3	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wet ,ix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification								
	NEW FORMATION								
	BHEL LAYOUT								
	5TH CROSS ROAD								
	Ch.0.00 to 30.0m		1	30.00	5.50	0.23	40.02		
	Ch.30.0 to 60.0m		1	30.00	5.50	0.23	40.02		
	Ch.60.0 to 90.0m		1	30.00	5.80	0.23	40.02		
	Ch.90.0 to 102.5m		1	12.50	5.80	0.23	17.40		
						Present Qty	137.46		

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Contractor PMC Assistant Engineer Asst, Executive Engineer

22/4/2021

Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

Date of Pre-Measurement :

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Rate	Amount
4	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occcuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3								
	NEW FORMATION								
	BHEL LAYOUT								
	5TH CROSS ROAD								
	Ch.0.00 to 30.0m		1	30.00	5.50		174.00		
	Ch.30.0 to 60.0m		1	30.00	5.50		174.00		
	Ch.60.0 to 90.0m		1	30.00	5.80		180.00		
	Ch.90.0 to 102.5m		1	12.50	5.80		81.25		
						Present Qty	609.25	6.36	3874.83

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Contractor | PMC | Assistant Engineer | Asst, Executive Engineer

23/5/2021

ame of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

of Pre-Measurement :

Detailed Measurements

m lo	Discription of Item		No	Length	Breadth	Depth	Qty	Rate	Amount
6	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10 Complete in all respects compete as per specifications MORTH specification No. 507. using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5 % VG-30 Bitumen.								
	NEW FORMATION								
	BHEL LAYOUT								
	5TH CROSS ROAD								
	Ch.0.00 to 30.0m		1	30.00	5.50	0.05	8.70		
	Ch.30.0 to 60.0m		1	30.00	5.50	0.05	8.70		
	Ch.60.0 to 90.0m		1	30.00	5.80	0.05	9.00		
	Ch.90.0 to 102.5m		1	12.50	5.80	0.05	3.75		
						Present Qty	**30.15**	5962.50	179769.38

Contractor PMC Assistant Engineer Asst, Executive Engineer

25/5/2021

Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

Date of Pre-Measurment

Detailed Measurments

Item No	Discription of Item		Unit	Rate	Amount
1	mechanical means including cutting loading to tippers trimming bottom and side slopes in accordance with requirment of lines and cross sections and transportation with a lead of 1.00 km and complete as per specification. MORTH Specification No.301 and 4Kms Lead for disposal.				
	Present Qty	**345.75**	**Cum**	**57.03**	**19718.12**
2	construction of granular sub-base grading-v as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite material, mixing by mix in place method by rotavator at OMC spreading in uniform layers with motor grader on prepared surface and compactioning with vibratory power roller to achieve the 98% proctor density, complete as per specification. clause 401 of MORTH V revision				
	Present Qty	**90.45**	**Cum**	**1855.00**	**167784.75**
3	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wet ,ix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification				
	Present Qty	**137.46**	**Cum**	**2001.28**	**275095.95**
4	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occcuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3				
	Present Qty	**609.25**	**Sqm**	**6.36**	**3874.83**
5	KSRRB M500-6Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. clause 502 of MORTH V revision.				
	Present Qty	**609.25**	**Sqm**	**33.92**	**20665.76**
6	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10 Complete in all respects compete as per specifications MORTH specification No. 507. using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5 % VG-30 Bitumen.				
	Present Qty	**30.18**	**Cum**	**5962.50**	**179969.38**

27/5/2021

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Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

Date of Pre-Measurement :

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Rate	Amount
7	KSRRB M500-10. Providing and applying tack coat using 80/100 grade sqm bitumin(VGIO) in boiler fitted with the spray set distributor at the rate of 0.25KG/Sqm on the existing prepared bituminous (prime surface) clean with the mechanical broom, complete as per specifications. CLAUSE 503 of MORTH V revision.								
	NEW FORMATION								
	BHEL LAYOUT								
	5TH CROSS ROAD								
	Ch.0.00 to 30.0m		1	30.00	5.50		174.00		
	Ch.30.0 to 60.0m		1	30.00	5.50		174.00		
	Ch.60.0 to 90.0m		1	30.00	5.80		180.00		
	Ch.90.0 to 102.5m		1	12.50	5.80		81.25		
						Present Qty	609.25	12.72	7749.66

Contractor PMC Assistant Engineer Asst, Executive Engineer

27/5/2021

Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

Date of Measurement :

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Rate	Amount
8	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminious binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastic(waste plastic) crushed aggregates of specified grading pre mixxed with bituminous binder and filler, transporting the hot mix to the work site, laying with a paver finisher to the require grade, level and allignment and rolling with the smooth wheeled, vibratory and tandom rollers to achieve the desired compaction in all respect complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.								
	NEW FORMATION								
	BHEL LAYOUT								
	5TH CROSS ROAD								
	Ch 0.00 to 30.0m		1	30.00	5.50	0.03	5.22		
	Ch 30.0 to 60.0m		1	30.00	5.50	0.03	5.22		
	Ch 60.0 to 90.0m		1	30.00	5.80	0.03	5.40		
	Ch 90.0 to 102.5m		1	12.50	5.80	0.03	2.25		
						Quantity Limiting to	**18.09**	8000.42	157[illegible]

18/9/2024

Contractor PMC Assistant Engineer Asst, Executive Engineer

27/5/2024

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Name of Work: Construction of RCC Drains and Culverts at BHEL Layout And Ayyappa Layout and Surrounding Area in Ward No.03, Yelahanka Satellite Town Sub Division.

Date of Measurement :

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Rate	Amount
9	KSRRB M800-13. Road marking with hot applied thermoplastic compound with reflectrising glass beads on bituminous/ concrete surface. providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectrising glass beads at 250gms/ Sqm area, thickness of 2.5mm is exclusive of surfsce applied glass beads as per IRC: 35 standards specified the finished surface to be levell uniform and free from streaks and holes complete as per speciationd MORTH specification No.803								
	NEW FORMATION								
	BHEL LAYOUT								
	5TH CROSS ROAD								
	Ch.0.00 to 30.0m		2	30.00	0.10		7.50		
	Ch.30.0 to 60.0m		2	30.00	0.10		7.50		
	Ch.60.0 to 90.0m		2	30.00	0.10		7.50		
	Ch.90.0 to 102.5m		2	12.50	0.10		3.00		
						Present Qty	**25.50**	**454.74**	**11595.87**
								Total	**843626.82**
								12% GST	**101235.22**
								4% KRIDL	**33745.07**
								Grand Total	**978608.00**

Contractor PMC Assistant Engineer Asst, Executive Engineer

29/5/2021